

CLAIMS

1. Optical connector system (1) comprising a backpanel (2) and at least one substrate (3), said substrate (3) having at least one substrate housing assembly (30) and said backpanel (2) having at least one backpanel housing assembly (20) for establishing an optical interface

5 **characterized in that**

said substrate housing assembly (30) is attached to said substrate (3) and comprises a further housing (34) slidably mounted in a z-direction of said substrate housing assembly (30).

2. Optical connector system (1) according claim 1, wherein said substrate housing assembly (30) comprises a biasing arrangement (33) for said further housing (34) adapted to release said further housing (34) substantially after completion of said optical interface.

3. Optical connector system (1) according claim 1 or 2, wherein said further housing (34) is at least partly accommodated within said substrate housing assembly (30).

4. Optical connector system (1) according to one or more of the preceding claims, wherein said substrate housing assembly (30) comprises a first interface part (7) for establishing said optical interface with a second interface part (8) at said backpanel housing assembly (20).

5. Optical connector system (1) according to claim 4, wherein said second interface part (8) is integrated in said backpanel (2).

6. Optical connector system (1) according to claim 4, wherein said backpanel (2) comprises a cavity (C) for forming said second interface part (8) at said backpanel housing assembly (20).

7. Optical connector system (1) according to one or more of the claims 4-6, wherein said further housing comprises said first interface part (7).

8. Optical connector system (1) according to one or more of the claims 4-7, wherein said further housing comprises

at least one ferrule assembly (37) for optical fibres for said first interface part (7) and alignment elements (38) to align said first interface part (7) and said second interface part (8).

5 9. Optical connector system (1) according to one or more of the preceding claims, wherein said backpanel housing assembly (20) and said substrate housing assembly (30) comprise locking elements (26,31A) adapted to lock said housings (20,30) after completion of said optical interface.

10 10. Optical connector system (1) according to one or more of the preceding claims, wherein said backpanel (2) comprises one or more first electrical contacts (9) and said substrate (3) comprises one or more second electrical contacts (10) and said optical connector system (1) is further arranged
15 to establish electrical connections between said first and second electrical contacts (9,10) substantially after completion of said optical interface.

 11. Substrate housing assembly (30) for a substrate (3) adapted for mounting to a backpanel housing assembly (20)
20 of a backpanel (2) to establish an optical interface for optical communication between said substrate (3) and said backpanel (2)

characterized in that

said substrate housing assembly (30) is adapted to comprise a
25 further housing (34) with a mating side forming a first interface part (7) for said optical interface, said further housing (34) being slidably mountable in a z-direction of said substrate housing assembly (30).

 12. Substrate housing assembly (30) according to
30 claim 11, wherein said substrate housing assembly (30) comprises biasing means (33) adapted to release said further housing (34) substantially after completion of said optical interface.